FOR
FLEMMING'S SERVICE STATION
MARENGO, ILLINOIS
U.S. EPA ID: ILD981537780
SS ID: NONE
TDD: F05-8808-014
PAN: FIL0664SB

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EPA Region 5 Records Ctr.



ecology and environment, inc.

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FOR
SCREENING SITE INSPECTION REPORT
FOR
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MARENGO, ILLINOIS
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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Flemming's Service Station (Flemming's) site under contract number 68-01-7347.

The site was initially discovered on February 4, 1977, when two representatives from the Illinois Environmental Protection Agency (IEPA) stopped at a Deep Rock gas station located on U.S. Route 20, east of Marengo, Illinois, and questioned the attendant about three trailers containing drums that were observed at the rear of the site.

FIT conducted the SSI at the Flemming's site because its location matches that described by the IEPA representatives for the Deep Rock gas station (McCarrin 1977; Bradley 1990). The Flemming's site is also the only gas station present in that general area.

The site was evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Gary Reside of IEPA and is dated December 6, 1987 (U.S. EPA 1987).

FIT prepared an SSI work plan for the Flemming's site under technical directive document (TDD) F05-8808-014, issued on August 11, 1988. The SSI work plan was approved by U.S. EPA on January 16, 1990. The SSI of the Flemming's site was conducted on March 27 and 28, 1990, under amended TDD F05-8808-014, issued on February 2, 1990.

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of six soil samples and four residential well samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section presents information obtained from SSI work plan preparation, the site representative interview, and a reconnaissance inspection of the site.

2.2 SITE DESCRIPTION

The Flemming's site is currently the location of an active construction company, Carmichael Construction Company. The site is approximately 1 acre in size and is located at 1080 East Grant Highway (U.S. Route 20) in McHenry County, Marengo, Illinois (SE1/4SE1/4SE1/4 sec. 36, T.44N., R.5E.) (see Figure 2-1 for site location).

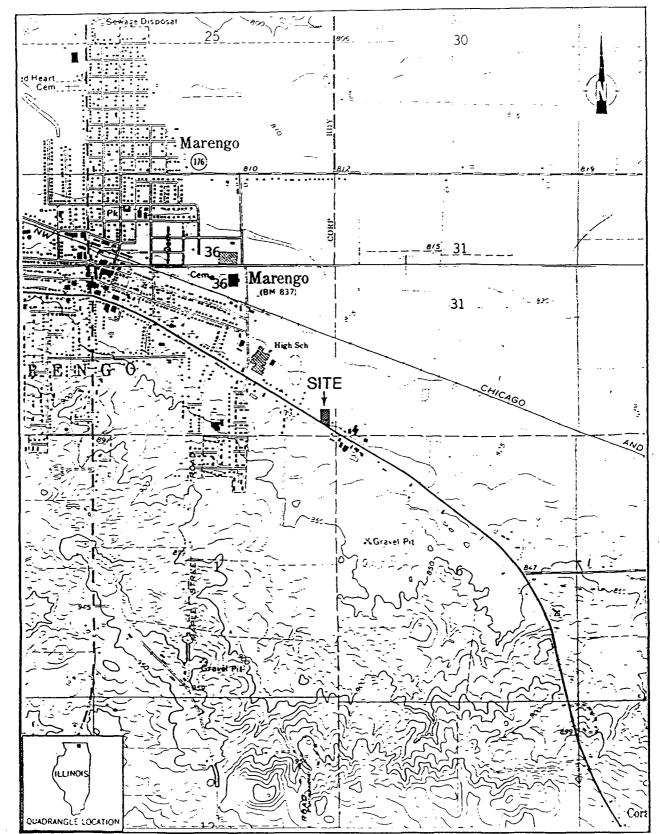
A 4-mile radius map of the Flemming's site is provided in Appendix A.

2.3 SITE HISTORY

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The Flemming's site at 1080 East Grant Highway is currently owned by Jim Carmichael, who owns and operates Carmichael Construction on-site. Additionally, a small injection molding polishing company named Excel is currently located in a leased room in the one on-site building (Carmichael 1990). Carmichael bought the site in May 1987 from Ron Flemming, who owned and operated a Mobil gas station on-site from February 1980 to May 1987. From April 1976 to February 1980, the site was used as a gas station, owned and operated by Chuck Griffin (Bradley 1990).



SOURCE: USGS, Marengo North, IL Quadrangle, 7.5 Minute Series, 1970, photorevised 1975; Marengo South, IL Quadrangle, 7.5 Minute Series, 1968, photorevised 1975.

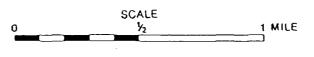


FIGURE 2-1 SITE LOCATION

During IEPA's 1977 visit to the Deep Rock gas station, additional information obtained from the attendant included the following.

- The owner of the gas station had allowed the trailers to be parked on his property (McCarrin 1977).
- The drums in the trailers were from the Bean Drum site, a site identified in the Comprehensive Environmental Response, Compensation, and Liability Information System as an illegal storage and transfer station that was used for hazardous waste from 1974 to 1977, located approximately 2 miles south of Marengo (U.S. EPA 1984).

Upon investigation, the IEPA representatives observed that most of the drums (exact number unknown) in the three trailers contained various acids and cyanide compounds and showed evidence of leakage. Evidence that at least one additional trailer had been recently removed from the site was also observed (McCarrin 1977).

The construction company that Carmichael currently operates on-site does not generate or use hazardous waste. The building on-site is used as an office for the company, as well as storage space for small construction equipment. Excel, the company that operates from a small leased room in the back of the building, does not generate or use hazardous waste in its operations. Carmichael's construction company employs seven persons, which includes clerical staff; Excel employs two persons (Carmichael 1990).

Carmichael removed three empty underground gasoline tanks (date unknown) that had been used in past site operations, and stored them in the northern portion of the site. Carmichael stated that this action was self-initiated. The tanks were empty and they each had a capacity of approximately 5,000 gallons (Carmichael 1990).

At the time of the SSI, there were no regulatory or enforcement actions pending against the site.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the Flemming's site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan, with the exception that only three of the proposed five on-site subsurface soil samples were collected; the two remaining on-site soil samples were surface samples.

FIT decided to collected surface soil samples to assess the possibility of contaminant migration through windblown particulates.

Additionally, the work plan proposed that all subsurface samples be collected using a power auger. Of the three samples that were collected at depth, only two were collected with a power auger.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Flemming's site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Tim Mayers, FIT team leader, conducted an interview with Jim Carmichael, present owner and operator, and Ron Flemming, past owner and operator, of the Flemming's site. The interview took place on March 27, 1990, at approximately 8:15 a.m. in the on-site office of Carmichael Construction. Deneen Benford, FIT team member, was also present during the interview. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the Flemming's site and surrounding area in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection began at 9:00 a.m. on March 27, 1990, and included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined sampling locations during the reconnaissance inspection. FIT was not accompanied by site representatives during the reconnaissance inspection.

Reconnaissance Inspection Observations. The Flemming's site is located on the southeast end of Marengo, Illinois. The site is located in an area characterized by residential homes and commercial buildings. Agriculture is also present in the area of the site. An agricultural field serves as the site's northeast border (see Figure 3-1 for site features). Fencing was observed along this boundary. The northwest border of the site was a line of deciduous trees with an open lot west of them. U.S. Route 20, locally known as Grant Highway, serves as the site's southwest border. A restaurant is located on the property southeast of the site. Deciduous trees line the border between the site and this property.

Entrance to the site is gained simply by driving off U.S. Route 20 onto gravel-covered areas on either side of a grass-covered, landscaped berm that leads from U.S. Route 20 to the on-site building (refer to page 8 of Appendix C for photograph). The building is occupied by Carmichael Construction and Excel. A roll-off box was located northwest of the berm and two employees' automobiles were located to the southeast.

Along the northwest border of the site, FIT observed one end of a culvert. Beneath the end of the culvert was a depression filled with standing water that was even with the bottom lip of the culvert. It appeared that the other end of the culvert was located just south of U.S. Route 20, and that water flowed from north to south through the culvert.

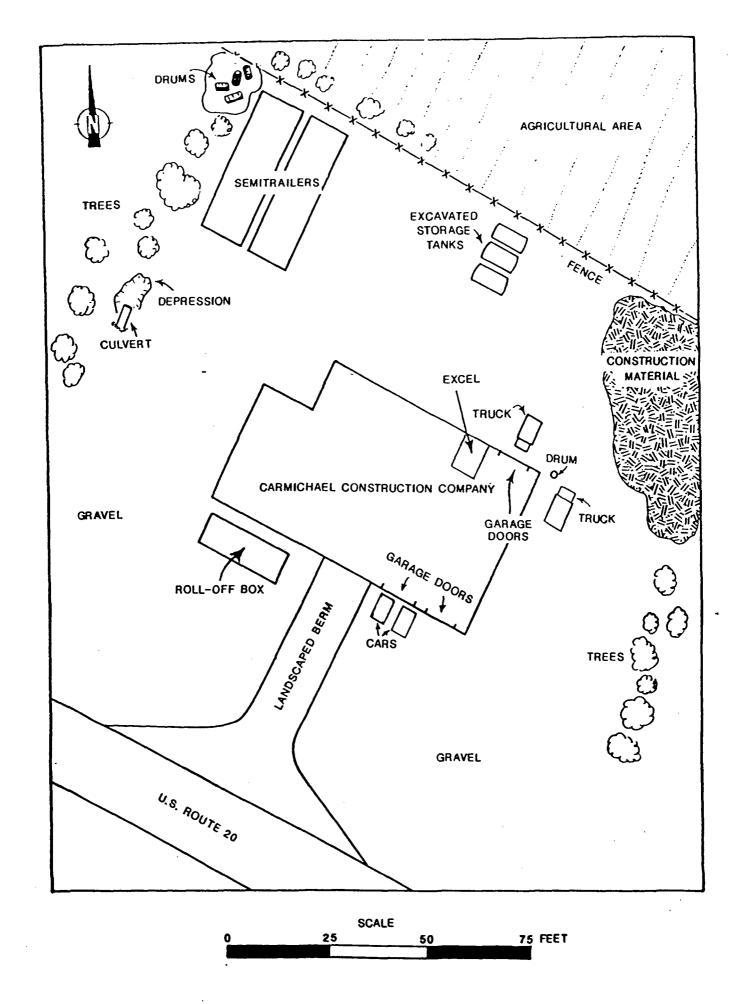


FIGURE 3-1 SITE FEATURES

In the northwest corner of the site were four empty, rusted 55-gallon drums. Located approximately 15 feet southeast of these drums were two semitrailers that are used for the storage of construction equipment.

Located in the northern portion of the site, approximately 40 feet east-southeast of these two semitrailers, FIT observed three gasoline tanks that, according to Carmichael, had been excavated from beneath the ground surface. FIT estimated the volume of each of these tanks to be approximately 5,000 gallons. FIT did not observe any obvious areas where these tanks may have been formerly located.

The northeast corner of the site was covered by general construction material and equipment. While the extreme northern portion of the site had some grass cover and the berm south of the building was grassed, the majority of the site was covered with hard packed gravel.

Photographs of the Flemming's site are provided in Appendix C.

3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds or Target Analyte List (TAL) analytes were present at the site. The TCL and TAL are included with corresponding quantitation/detection limits in Appendix D.

On March 27, 1990, FIT collected six soil samples, including one off-site potential background sample. Four of the six soil samples were subsurface samples. On March 28, 1990, FIT collected four residential well samples, including one duplicate well sample, and one field blank. Portions of on-site samples collected by FIT were offered to and declined by site representatives.

Soil Sampling Procedures. Soil sample S1 was a subsurface grab sample collected at a depth of 1 foot from the base of four empty, rusted 55-gallon drums. These drums were located in the far northwest corner of the site (see Figure 3-2 for on-site soil sampling locations). Soil sample S1 was collected to determine whether any materials that may have been inside the drums had leaked out onto the soil.

Soil samples S2, S3, and S4 were all grab samples collected from the northern portion of the site to determine whether the drums that

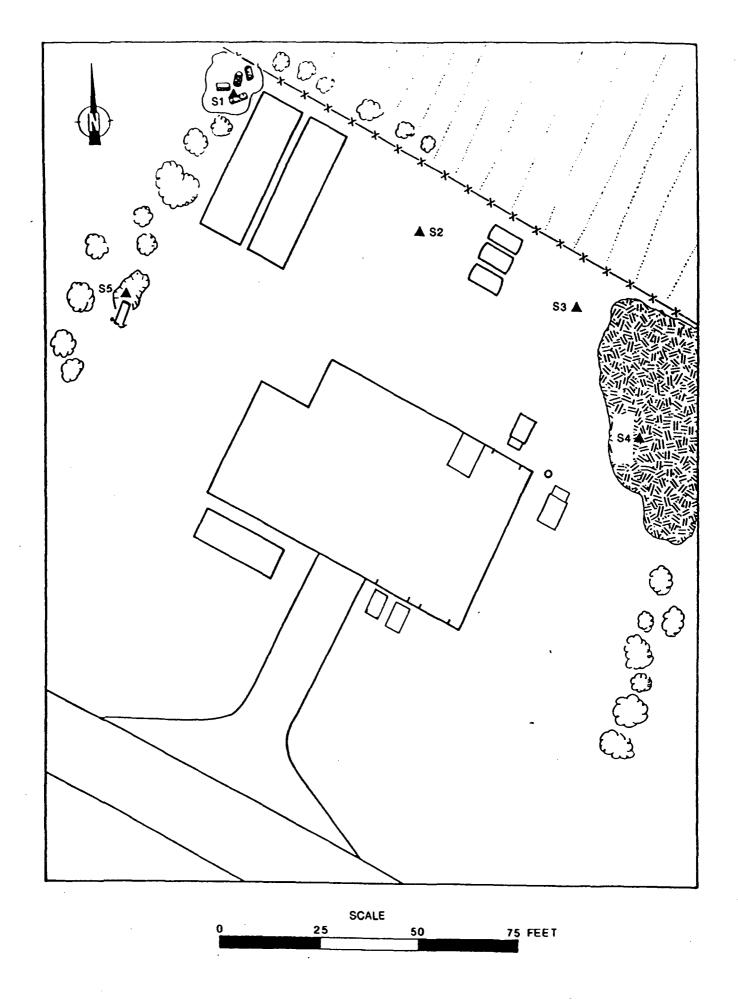


FIGURE 3-2 ON-SITE SOIL SAMPLING LOCATIONS

were stored in the trailers that had allegedly been stored in this area had leaked. Subsurface soil sample S2 was collected at a depth of 2 1/2 feet approximately 15 feet west of the three abandoned storage tanks. Surface soil sample S3 was collected approximately 20 feet east of the abandoned storage tanks. Sample S3 was collected to assess the potential for contamination by windblown particulates. Subsurface soil sample S4 was collected at a depth of 3 feet, approximately 25 feet southeast of soil sample S3, within the construction material storage area.

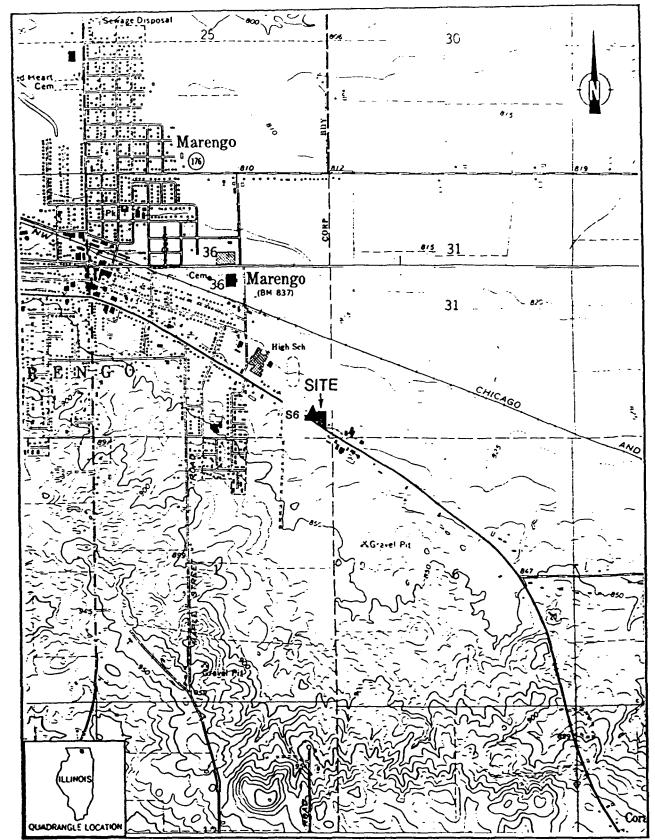
Soil sample S5 was a surface grab sample collected in the depression located beneath the culvert on the northwestern side of the site.

Soil sample S6 was a surface grab sample, designated as the potential background sample (see Figure 3-3 for off-site soil sampling location). The sample was collected in the vacant lot adjacent to the northwest side of the site, approximately 25 feet northwest of sampling location S5. Sampling location S6 was selected because the area appeared to be in a relatively undisturbed state.

All surface soil samples were collected using either a garden trowel, a shovel, or a combination of the two. Subsurface soil sample S1 was collected with a shovel. Subsurface soil samples S2 and S4 were collected using a power auger to reach the desired depth. The sample material was then lifted from the hole to the ground surface by means of a bucket auger. During the collection of all soil samples, sample material was transferred from the ground into stainless steel bowls and from the bowls into sample bottles by using garden trowels (E & E 1987).

Standard E & E decontamination procedures were adhered to during the collection of all soil samples. The procedures included the scrubbing of all equipment (e.g., power-auger flights, bucket auger, shovel, garden trowels, and bowls) with a solution of detergent (Alconox) and distilled water, and triple-rinsing the equipment with distilled water before the collection of each sample (E & E 1987). All samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, all soil samples were analyzed using the U.S. EPA Contract Laboratory Program (CLP) for TCL compounds and TAL analytes.

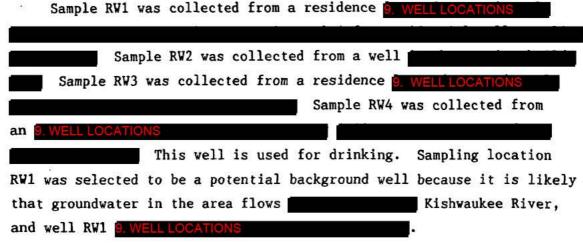


SOURCE: USGS, Marengo North, IL Quadrangle, 7.5 Minute Series, 1970, photorevised 1975; Marengo South, IL Quadrangle, 7.5 Minute Series, 1968, photorevised 1975.



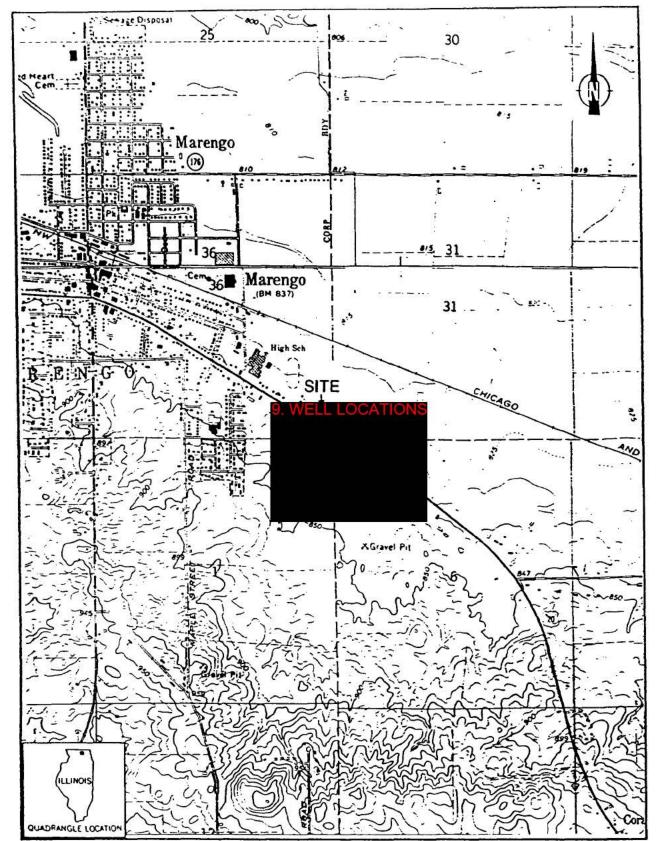
FIGURE 3-3 OFF-SITE SOIL SAMPLING LOCATION

Residential Well Sampling Procedures. Residential well samples (designated RW1 through RW4) were collected to determine whether TCL compounds and/or TAL analytes had migrated from the site to groundwater in the area of the site. The residential well sampling locations were selected because of their proximity to the site and the availability of private wells for sampling.



All residential well samples were obtained from outlets that bypassed water treatment systems and storage tanks. Water was allowed to discharge from the outlets for 15 minutes before samples were collected to ensure that the sample sources had been purged of standing water (E & E 1987). In accordance with U.S. EPA quality assurance/ quality control requirements, a duplicate residential well sample and a field blank sample were collected. The field blank sample was prepared from distilled water. The duplicate sample was collected at location RW2 (see Table 3-1 for addresses of residential well sampling locations).

As directed by U.S. EPA, all residential well samples were analyzed using the U.S. EPA CLP for TCL compounds and for TAL analytes.



SOURCE: USGS, Marengo North, IL Quadrangle, 7.5 Minute Series, 1970, photorevised 1975; Marengo South, IL Quadrangle, 7.5 Minute Series, 1968, photorevised 1975.



FIGURE 3-4 RESIDENTIAL WELL SAMPLING LOCATIONS

Table 3-1

ADDRESSES OF RESIDENTIAL WELL

SAMPLING LOCATIONS

Sample	Address
RW1	9. WELL LOCATIONS
RW2 (Duplicate)	
RW3	
RW4	

4. ANALYTICAL RESULTS

This section presents results of the chemical analysis of FIT-collected soil and residential well samples for TCL compounds and TAL analytes. All samples were analyzed for volatile organics, semivolatile organics, pesticides/polychlorinated biphenyls (PCBs), metals, and cyanides. Complete chemical analysis results of FIT-collected soil and residential well samples are provided in Tables 4-1 and 4-2.

Quantitation/detection limits used in the analysis of soil and residential well samples are provided in Appendix D.

The analytical data for the chemical analysis of soil and residential well samples collected for this SSI have been reviewed by U.S. EPA for compliance with terms of CLP, and the review has been approved by U.S. EPA. The analytical data have also been reviewed by FIT for validity and usability. Any additions, deletions, or changes to the data have been incorporated in the chemical analysis results tables presented in this section.

Table 4-1

RESULTS OF CHEMICAL ANALYSIS OF

FIT-COLLECTED SOIL SAMPLES

Sample Collection Information			Sample	Number		
and Parameters	S1	\$2	53	S4	S 5	S 6
Date	3/27/90	3/27/90	3/27/90	3/27/90	3/27/90	3/27/90
Time	0935	0955	1015	1020	1050	1130
CLP Organic Traffic Report Number	EGR29	EGR30	EGR31	EGR32	EGR33	EGR34
CLP Inorganic Traffic Report Number	MEEB11	MEEB12	MEEB13	MEEB14	MEEB15	MEEB16
Compound Detected						
(values in μg/kg)						
Volatile Organics						
2-butanone (MEK)	9Ј	8J			9J	3Ј
coluene	4 J					113
Semivolatile Organics						
enzoic acid	84J	39Ј	43J	72Ј		95J
luoranthene	49 J		58J			
yrene			49J			
hrysene			41J			
is(2-ethylhexyl)phthalate	613	~-			23,000	
esticides/PCBs						
eptachlor epoxide	7.6J					
ieldrin	11J		5.3J	50	49	
,4'-DDE	15J			طشفين	24	
,4'-DDD	5.7J				59	
ndosulfan sulfate			13J			
,4'-DDT	30Ј		20		96	-
nalyte Detected						
values in mg/kg)				•		
luminum	10,300	3,650	6,640	5,020	6,910	415
rsenic	32.5JN	1.8JNB	2.5JN	1.9JNB	3.3JN	0.34JN

Table 4-1 (Cont.)

Sample Collection Information	Sample Number					
and Parameters	S1	S2	s 3	S4	S 5	56
barium	678JN	25.2JNB	71.6JN	41.3JNB	73.9JN	4.7JNE
beryllium	0.46B	0.32B	0.44B	0.32B	0.46B	. —
cadmium	1.7		0.74B	1.1		
calcium	9,250	48,600	30,000	32,500	25,800	13,900
chromium	21.2	17.7	15.3	13.2	16	
cobalt	7.1B	2.7B	81.5	3.7в	8.08	57.4
copper	37.1	13.3	32.4	17.4	24.9	11.8
iron	17,200	6,930	11,900	12,000	12,800	1,460
lead	300JN	28.7JN	95.8JN	19.2	147JN	4.9
magnesium	4,760	27,900	16,300	18,700	14,900	7,120
manganese	668	173	366	369	419	23.7
nickel	15.9	6.4B	60.4	8.7B	14.9	43.1
potassium	1,320	435B	717B	653B	851B	119B
sodium					780B	
/anadium	30	12.4	21.2	17	22.8	0.87B
zinc	490	47	59.3	34.1	261	7.8

⁻ Not detected.

COMPOUND	QUALIFIER	DEFINITION	INTERPRETATION
J		Indicates an estimated value.	Compound value may be semiquantitative
ANALYTE	QUALIFIERS	DEFINITION	INTERPRETATION
N		Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi- quantitative.
В		Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J		Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.

Table 4-2
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED RESIDENTIAL WELL SAMPLES

Sample Collection Information		Sample Number				
and Parameters	RW1	RW2	Duplicate	RW3	RW4	Blank
Date	3/28/90	3/28/90	3/28/90	3/28/90	3/28/90	3/28/90
Time	1045	1040	1040	1115	1150	1015
CLP Organic Traffic Report Number	EJJ79	EJJ80	EJJ81	EJJ82	EJJ83	EAB97
CLP Inorganic Traffic Report Number	MEJK13	MEJK14	MEJK15	MEJK16	MEJK17	MEJA1
Temperature (°C)	13	13	13	13	13	8
Specific Conductivity (µmhos/cm)	520	820	520	460	430	4
рн	7.10	7.10	7.10	7.69	7.79	7.60
Compound Detected						
(values in µg/L)						
Volatile Organics						
methylene chloride	8	0.7J			•	1
coluene					 .	15
Semivolatile Organics						
penzyl alcohol						1 Ј
outylbenzylphthalate						15
analyte Detected						
values in µg/L)						
arium	104	37.5B	33.98	38.1B	33.8	
alcium	47,800	92,300	89,600	80,700	78,100	
opper	-	21.4J	19.3J	42.4J	14.3J	37
ron	1,750	12.7ЈВ	12.4JB	14.4JB	32.3JB	23.4B
ead		1.1JB	1.1JB			1.4B
agnesium	31,900	38,700	37,600	36,300	37,800	
anganese	15.5		-		81.6	

Sample Collection Information	Sample Number					
and Parameters	RW1	RW2	Duplicate	RW3	RW4	Blank
potassium	778B	2,920	3,060	4,320	507B	
sodium	23,900	9,860	9,510	5,940	3,560	247B
zinc		10.7јв		189	18.6JB	25.3

⁻ Not detected.

	COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
	J	Indicates an estimated value.	Compound value may be semiquantitative.
4	ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
-6	В	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi- quantitative.
	J	Value is above CRDL and is an estimated value because of a OC protocol.	Value may be semiquantitative.

4

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section presents discussions of data and information pertaining to potential migration pathways and targets of TCL compounds and TAL analytes that are possibly attributable to the Flemming's site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

TCL compounds and TAL analytes were detected in groundwater within a 1/4-mile radius of the Flemming's site. The TCL compounds and TAL analytes detected were either common groundwater constituents or common laboratory artifacts. Therefore, the presence of these compounds and analytes in area groundwater is not attributable to the Flemming's site.

A potential does exist for TCL compounds and/or TAL analytes to migrate from the site into groundwater. This potential is based on the presence of TCL compounds and TAL analytes in on-site soil samples and the geology in the site area. TCL compounds detected in on-site soils include Dieldrin at 50 μ g/kg, 4,4'-DDD at 59 μ g/kg, and 4,4'-DDT at 96 μ g/kg. Additionally, aluminum was detected at 10,300 mg/kg, chromium at 21.2 mg/kg, lead at 300JN mg/kg, and zinc at 490 mg/kg.

A review of logs of area wells and geological literature of the area surrounding the site indicates that groundwater is derived from unconsolidated glacial materials and sandstone bedrock.

The Quaternary glacial deposits consist of sand, gravel, and silty clay and range in thickness from 0 to over 200 feet. In some

areas the glacial deposits are overlain by a relatively thin (2- to 3-foot) layer of organic soil that is partly characterized by a moderately rapid permeability rate (Ray and Wascher 1965). Information obtained from logs of wells of the area surrounding the site and information from the Marengo Water Department indicate that most domestic wells draw from the glacial deposits at depths ranging from 10 to 150 feet (Bergquist 1989). The well logs also indicate that some private wells in the area draw from bedrock.

Underlying the glacial deposits are water-bearing Ordovician shale, sandstones, and dolomites. The Maquoketa Shale, St. Peter Sandstone, and Galena/Platteville dolomites are included in this sequence (Woller and Sanderson 1976). The shale unit overlies the sandstone and dolomites, but, according to area well logs, does not extend continuously throughout a 3-mile radius of the site. In the site area, these units can be found at depths averaging 200 feet.

Underlying the Ordovician water-bearing units are Cambrian sandstones, dolomites, and shales. These units also include known aquifers but were not found to be used within a 3-mile radius of the site. Because the Maquoketa Shale does not extend continuously over a 3-mile radius surrounding the Flemming's site, the water-bearing glacial deposits and bedrock units most likely are hydraulically connected, constituting a single aquifer of concern.

Groundwater flow in the area of the site is most likely to the north, toward the Kishwaukee River. Groundwater is the sole source for drinking water within a 3-mile radius of the Flemming's site. The city of Marengo uses three municipal wells that serve approximately 4,500 persons, all living within Marengo city boundaries. An unknown number of persons within the municipal water boundaries of Marengo use private wells instead of municipal water. All three municipal wells are approximately 85 feet deep and finished in sand and gravel. The water is blended prior to distribution (Bergquist 1989).

The town of Union, located approximately 2 1/2 miles east-south-east of the Flemming's site, uses one municipal well finished in the St. Peter Sandstone Formation at a depth of 700 feet. This well furnishes drinking water to approximately 650 persons living within Union.

The potential groundwater target population includes the 4,500 persons within Marengo, the 650 persons within Union, and the approximately 5,400 persons within the 3-mile radius of the site using private wells for a total target population of 10,550 persons.

The number of persons living within a 3-mile radius of the site using private wells was calculated by multiplying the number of homes within a 3-mile radius of the site counted on United States Geological Survey (USGS) topographic maps of the area (USGS 1968, 1968a, 1970, 1970a) by the McHenry County figure of 2.99 persons per household (U.S. Bureau of the Census 1982).

5.3 SURFACE WATER

In accordance with the U.S. EPA-approved work plan, surface water samples were not collected during the SSI of the Flemming's site. The nearest surface water body is the Kishwaukee River, located approximately 1 1/2 miles north of the site. Although TCL compounds and TAL analytes were detected on-site, no potential exists for the overland migration of these TCL compounds and TAL analytes because of the distance between the Kishwaukee River and the site.

5.4 AIR

A release of TCL compounds or TAL analytes to the air was not documented during the SSI of the Flemming's site. During the reconnaissance inspection, FIT site-entry instruments (OVA 128, colorimetric monitoring tubes for cyanide, oxygen meter, and explosimeter) did not detect levels above background concentrations at the site. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

A potential does exist for TCL compounds and TAL analytes to migrate from the site via windblown particulates because TCL compounds and TAL analytes were detected in on-site surface soil samples, and portions of the site were observed to be unvegetated.

The population within a 4-mile radius of the site potentially affected by a release of TCL compounds and TAL analytes to the air is approximately 10,550 persons. This population was calculated by counting houses within a 4-mile radius of the site on USGS topographic

maps (USGS 1968, 1968a, 1970, 1970a) and multiplying this number by a persons-per-household value of 2.99 (U.S. Bureau of the Census 1982).

5.5 FIRE AND EXPLOSION

. 1

6.3

According to federal, state, and local file information reviewed by FIT, no documentation exists of an incident of fire or explosion at the site. According to FIT observations and site-entry equipment readings, no potential for fire or explosion existed at the site at the time of the SSI. However, a potential does exist for the three abandoned underground gasoline storage tanks, located on-site, to be accidentally ignited, e.g., by someone using a portable welder in the vicinity of the tanks.

The population within a 2-mile radius of the site potentially affected by a fire or explosion is approximately 4,500 persons. This population was calculated by counting houses within a 2-mile radius of the site on USGS topographic maps (USGS 1968, 1968a, 1970a) and multiplying this number by a persons-per-household value of 2.99 (U.S. Bureau of the Census 1982).

5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, observations made during the SSI, and the interview with the site representatives, no incidents of direct contact with TCL compounds or TAL analytes at the Flemming's site have been documented. However, a potential exists for the public to come into direct contact with TCL compounds and/or TAL analytes detected on-site because fencing does not completely surround the site, and the nearest private residence is located approximately 500 feet northwest of the site.

The population within a 1-mile radius of the site potentially affected through direct contact with TCL compounds and TAL analytes at the site is approximately 1,470 persons. This population was calculated by counting houses on USGS topographic maps within a 1-mile radius of the site (USGS 1968a, 1970a) and multiplying this number by a personsper-household value of 2.99 (U.S. Bureau of the Census 1982).

REFERENCES

- Bergquist, Vern, October 18, 1989, Superintendent, Marengo Water Department, telephone conversation, contacted by Tim Mayers of E & E.
- Bradley, Richard, April 18, 1990, Marengo Township Tax Assessor,

 Marengo, Illinois, telephone conversation, contacted by Tim Mayers

 of E & E.
- Carmichael, Jim, March 27, 1990, site representative interview, conducted by Tim Mayers of E & E.
- E & E, 1987, Quality Assurance Project Plan Region V FIT Conducted Site Inspections, Chicago, Illinois.
- McCarrin, Mike, March 7, 1977, IEPA, internal memorandum to file.
- Pace, Terry, December 20, 1989, Superintendent, Union Water Department, telephone conversation, contacted by Tim Mayers of E & E.
- Ray, B. W., and H. L. Wascher, 1965, Assistant Professor and Associate Professor of Geology, respectively, McHenry County Soils, Soil Report 81, University of Illinois, Agricultural Experiment Station, in cooperation with the U.S. Department of Agriculture, Soil Conservation Service.

APPENDIX A

SITE 4-MILE RADIUS MAP



APPENDIX B

U.S. EPA FORM 2070-13

POTENTIAL HAZARDOUS WASTE SITE

	IFICATION
O1 STATE	02 SITE NUMBER
TLD	9815 37786

SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION PART 1 - SITE LOCATION AND INSPECTION INFORMATION									
IL SITE NAME AND LOCAT	ION								
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03 CITY	04 STATE 05 ZIP CODE 06 COUNTY					07COUNT	V 08 CONG OST		
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POTENTIAL HAZARDOUS WASTE SITE

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION

O1 STATE O2 SITE NUMBER **\$EPA** ILD 98137780 PART 3-DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS IL HAZARDOUS CONDITIONS AND INCIDENTS 01 D.A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 10,505 02 C OBSERVED (DATE: **POTENTAL** () ALLEGED **04 NARRATIVE DESCRIPTION** SEE Subsection 5.2 in MARPATIUE 01 C.B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 02 COBSERVED (DATE: I POTENTIAL D ALLEGED 04 NARRATIVE DESCRIPTION SEE Subsection 5-3 in MARRHOUR 01 B C. CONTAMINATION OF AIR 02 G OBSERVED (DATE: **POTENTIAL** [] ALLEGED 03 POPULATION POTENTIALLY AFFECTED: ~10,500 04 NARRATIVE DESCRIPTION SEE Subsection 5.4 in Warrabue 01 & D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: 14500 **POTENTIAL** ☐ ALLEGED SEE Subsection 5.5 m MARRATURE S POTENTIAL 03 POPULATION POTENTIALLY AFFECTED: ~ 1470 D ALLEGED 02 3 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION SEE Subsection 5.6 in MARRATURE 02 S OBSERVED (DATE: 3 27 70) - 04 NARRATIVE DESCRIPTION [] POTENTIAL 01 # F. CONTAMINATION OF SOIL C ALLEGED OS AREA POTENTIALLY AFFECTED: UNKNOWN contaminants octobes in on-sire soil samples See Unperfive: Tables 4-1 for soil analytical possits POTENTIAL. O ALLEGED SEE Subsection 5.2 in Markfile 01 # H. WORKER EXPOSURE/INJURY 02 I OBSERVED (DATE: POTENTIAL. C) ALLEGED 03 WORKERS POTENTIALLY AFFECTED: 04 MARRATIVE DESCRIPTION SEE MARRATUE 01 TL POPULATION EXPOSURE/INJURY 02 I OBSERVED (DATE: D ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 4 (0,500 04 NARRATIVE DESCRIPTION SEE MARRATUE

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

SITE INSPECTION REPORT
ON OF HAZARDOUS CONDITIONS AND INCIDENTS

OF STATE O

L IDENTIFICATION

PART 3-DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS IL HAZARDOUS CONDITIONS AND INCIDENTS (C. 01 . DAMAGE TO FLORA 02 D OBSERVED (DATE: **POTENTIAL** C) ALLEGED 04 NARRATIVE DESCRIPTION potoutist exists from contaminant offector 02 D OBSERVED (DATE: 01 B K. DAMAGE TO FAUNA S POTENTIAL () ALLEGED 04 NARRATIVE DESCRIPTION potential exists from animals coming into contact with contaminants ordertes in soci or exting plants 01 E L CONTAMINATION OF FOOD CHAIN 02 () OBSERVED (DATE: _ **EL POTENTIAL** C ALLEGED An Agencytural field was dosesued abjacent to **04 NARRATIVE DESCRIPTION** 02 B OBSERVED (DATE: 3/27/16) 01 M. UNSTABLE CONTAINMENT OF WASTES D ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 44 10,500 04 NARRATIVE DESCRIPTION defected in on-site soil samples continues 01 B N. DAMAGE TO OFFSITE PROPERTY 02 D OBSERVED (DATE: POTENTIAL () ALLEGED **04 NARRATIVE DESCRIPTION** An AGRICUltural field was observed Adjacent to the site. 01 [] O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 [] OBSERVED (DATE: ... D POTENTIAL O ALLEGED 04 NARRATIVE DESCRIPTION MONE OBSERVED OR EFFORTED 02 | OBSERVED (DATE: 01 () P. RLEGAL/UNAUTHORIZED DUMPING D POTENTIAL **D ALLEGED 04 NARRATIVE DESCRIPTION** Mone reported or observed 05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS The site contains 3 lexindence underground steady farks presently stocked in the peaks of the site. Site Rep. stated her were used for exclusive by past exercises and presently they IL TOTAL POPULATION POTENTIALLY AFFECTED: IV. COMMENTS A suntil complete that polishes mades is located on site is well. It employs) 2 people that repeatedly ones not white they V. SOURCES OF INFORMATION CO SITE INSPECTION CONDUCTED 3/27/98 by ESE-Charge topoconflux units

	POTENTIAL	HAZAE	וותמ	S WASTE SITE		I. IDENTI	FICATION
\$EPA							02 SITE NUMBER 78 (5 3 7 7 80
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■ D. TANK, ABOVE GROUND □ E. TANK, BELOW GROUND		3	1	BIOLOGICAL		06 496	A OF SITE
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[] G. LANDFARM				OTHER RECYCLING		-	~ (Acres)
D H. OPEN DUMP			1	OTHER			
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V. ACCESSIBILITY	···-						
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01 WASTE EASILY ACCESSIBLE: # YES 02 COMMENTS		(,	- (- (- (-			
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VI. SOURCES OF INFORMATION ICH WA	calc references, e.g. state files, san	-	portsj		 .	·~	
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POTENTIAL HAZARDOUS WASTE SITE

L IDENTIFICATION

\$EPA		SITE INSPECT	OI STATE OZ SITE NUMBER			
· · · · · ·	PART 5 - WATER	, DEMOGRAPHIC				
IL DRINKING WATER SUPPLY					,	
01 TYPE OF DRINGCING SUPPLY (Check on standard)		02 STATUS			03 DISTANCE TO SITE	
SURFACE		ENDANGERE		MONITORED	1/2	
COMMUNITY A. D	8. 🖥	A.D.	8. C) E. C)	C. 🖪	A ~ /2 (mi) BOX-SITE (mar	
NON-COMMUNITY C. C.	D. 🗷	0.0		ONK GODY	8. <u>0.91-311 C. Ind.</u>	
IIL GROUNDWATER						
01 GROUNDWATER USE IN VICINITY (Chied B A CIPILY SOURCE FOR DRINKING	CI B. DRINKING		E C. COMMER	ICIAL, INDUSTRIAL, IRRIGA	NTON [] D. NOT USED, UNUSEABLE	
	(Other sources availe COMMERCIAL, IN (No other water source)	DUSTRIAL PRIGATION	-	er sources available)		
02 POPULATION SERVED BY GROUND W/		_	03 DISTANCE TO N	EAREST DRINGING WATER	WELL GM-SITE (DA)	
04 DEPTH TO GROUNDWATER ✓ (O m	OS DIRECTION OF GRE ASSU WAED	JUNDWATERFLOW TO BE N. LWAUKEE R.	OS DEPTH TO AQUIF OF CONCERN -L (OF AQUIFER		
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IV. SURFACE WATER						
01 SURFACE WATER USE (Cried and) 8 A PESERVOIR RECREATION ORINKING WATER SOURCE	BIA. RESERVOIR SECREATION B. IRRIGATION, ECONOMICALLY C. COMMERCIAL, INDUSTRIAL D. D. NOT CURRENTLY USED					
02 AFFECTED/POTENTIALLY AFFECTED	BODIES OF WATER					
NAME:				AFFECTE	D DISTANCE TO SITE	
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V. DEMOGRAPHIC AND PROPER	TY INFORMATION					
01 TOTAL POPULATION WITHIN 02 DISTANCE TO HEAREST POPULATION						
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03 NUMBER OF BUILDINGS WITHIN TWO	(2) MILES OF SITE		04 DISTANCE TO N	EAREST OFF-SITE BUILDS	G	
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VL ENVIRONMENTAL INFORMATION	
O 1 PERMEABILITY OF UNSATURATED ZONE (CHICA)	ne)
☐ A. 10 ⁻⁴ 10 ⁻⁸ cm/sec	0

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

LIDENTIFICATION
01 STATE 02 SITE NUMBER

ALIA	PART 5-W	ATER, DEMOGRAPH	IC, AND EN	IVIRON	MENTAL DA	ITA I	9 198537980		
VL ENVIRONMENTAL INFORMA									
O1 PERMEABILITY OF UNSATURATED 2				-		<u> </u>			
□ A. 10 ⁻⁴ - 10 ⁻	a cm/sec DB.	10-4 10-6 cm/sec	C. 10-4 - 10	0-3 cm/:	sec [] D. GR	EATER THAN	10 ⁻³ cm/sec		
02 PERMEABILITY OF BEDROCK (Chiefe	hvel								
(I A. IMPERIMEABLE B. RELATIVELY IMPERIMEABLE C. RELATIVELY PERIMEABLE D. VERY PERIMEABLE D. VERY PERIMEABLE Greater than 10 ⁻² on sect Greater									
03 DEPTH TO BEDROCK		04 DEPTH OF CONTAMINATED SOIL ZONE 05 SOIL PH							
<u>~118 ma</u>		DVKNONY W	06 SLOPE	ONKA	<u>6617</u>	<u> </u>			
06 NET PRECIPITATION 2 (in)	07 ONE YEAR 24 H	.5 (in)	SITE SLO	P€ %	DIRECTION OF		TERRAIN AVERAGE SLOPE		
09 FLOOD POTENTIAL	10		L	NA AN					
SITE IS IN UNKNOWN YEAR FLO	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	☐ SITE IS ON BARRI	ER ISLAND, C		LHIGH HAZARO	AREA, RIVER	INE FLOODWAY		
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(m) <u>A(1, _</u>	B>	(mi)	ENO	NGERE	D SPECIES:	<u>MA</u>			
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IL SAMPLES TAKEN				
SAMPLE TYPE	OI NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE	
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SURFACE WATER		USED		
WASTE				
AR				
RUNOFF				
SPILL				
SOIL	6			
VEGETATION	ļ			
OTHER		<u> </u>		
III. FIELD MEASUREMENTS TA	TO2 COMMENTS			
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O3 MAPS O4 LOCATIO		nment, Inc. / Chicago office		
V. OTHER FIELD DATA COLL				
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EPAFORM 2070-13 (7-81)

L IDENTIFICATION

	P	OTENTIAL HAZ	ARDOUS WASTE SITE	L IDENTIFIC			
\$EPA			SPECTION REPORT 01 STATE 02 SITE NUMBER TLD 981537280				
VLI/		PART 7 - OWI	NER INFORMATION				
IL CURRENT OWNER(S)	(PARENT COMPANY of applicating				
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03 STREET ADDRESS (P.O. Box, NFO P. etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. BOX, NFD 4, ML)		11 SIC CODE		
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EPA FORM 2070-13 (7-81)							

\$EPA			SITE INSPE	RDOUS WASTE SITE CTION REPORT TOR INFORMATION	OI STATE 02	LIDENTIFICATION 01 STATE 02 SITE MANGER TLO 981537780	
IL CURRENT OPERATO	R product attended	ne1		OPERATOR'S PARENT COMPA	NY propinson		
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OS CITY		06 STATE (07 ZIP COOE	14 CITY	15 STATE	16 ZP COOE	
06 YEARS OF OPERATION	09 NAME OF OWNER						
III. PREVIOUS OPERAT	OR(S) (All most record fire	nt; provide andy	I effect for easy	PREVIOUS OPERATORS' PARE	ENT COMPANIES #	enofestal	
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OS YEARS OF OPERATION	09 NAME OF OWNER D	DURING THIS	PERIOD			<u> </u>	
01 NAME	L	ľ	02 D+8 NUMBER	10 NAME		110+8 NUMBER	
03 STREET ADDRESS (F.O. B.	x, RFD F, etc.)		04 SIC CODE	12 STREET ADDRESS (P.Q. Box, AFO F, esc	ដ	13 SIC CODE	
OS CITY		06 STATE	07 ZP COOE	14 017	15 STATE	1620°CODE	
08 YEARS OF OPERATION	09 NAME OF OWNER	DURING THE	SPERIOD				
OT NAME	<u> </u>		02 D+6 NUMBER	10 NAVE		110+8 NUMBER	
03 STREET ADDRESS (F.O. A	or, NFD 4, etc.)		04 SC CODE	12 STREET ADDRESS (P.O. Bus, APO P, as	r.j	13 SIC COO€	
OS CATY	 	06 STATE	07 ZIP CODE	14 CITY -	15 STATE	16 ZIP CODE	
OB YEARS OF OPERATION	09 NAME OF OWNER	DURING THE	S PERIOD			<u> </u>	
IV. SOURCES OF INFO	DRMATION (Che apocale	lt references, e	L.G., State Too, Sarryte area	et, repetit			
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	RDOUS WASTE SITE	L IDENTIFICATION					
\$EPA	C.EPA			TION REPORT	01 STATE 02 SITE NUMBER		
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IL ON-SITE GENERATOR	·			**************************************			
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\$EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES		OI STATE OF SITE NUMBER ILD 781537780
L PAST RESPONSE ACTIVITIES	02 DATE	M ACENCY	
01 D A WATER SUPPLY CLOSED 04 DESCRIPTION	NA	WAGENCY	
01 D B. TEMPORARY WATER SUPPLY PROVID 04 DESCRIPTION	NA		
01 D.C. PERMANENT WATER SUPPLY PROVID 04 DESCRIPTION	AN		
01 () D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	NA	03 AGENCY	
01 [] E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	NA 02 DATE	03 AGENCY	
01 [] F. WASTE REPACKAGED 04 DESCRIPTION	NA 02 DATE	03 AGENCY	
01 CJ G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	NA		
01 (1) H. ON SITE BURIAL 04 DESCRIPTION	NA 02 DATE		
01 () L IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	NA O2 DATE	03 AGENCY	
01 E.J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	NA 02 DATE	03 AGENCY	
01 () IK. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	NA 02 DATE	03 AGENCY	,
01 CI L. ENCAPSULATION 04 DESCRIPTION	NA 02 DATE	03 AGENCY	
01 (1) M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	NA 02 DATE	03 AGENCY	
01 E N. CUTOFF WALLS 04 DESCRIPTION	NA 02 DATE	03 AGENCY	
01 E O. EMERGENCY DIKING SURFACE WATE 04 DESCRIPTION	ER DIVERSION OZ DATE	03 AGENCY	
01 C P CUTOFF THENCHES SUMP 04 DESCRIPTION	NA OZ DATE	03 AGENCY	
01 E: G: SUBSUFF-CE CUTOFF WALL 04 DESCRIPTION	NA OS DATE	03 AGENC	·

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≎EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	L IDENTIFICATION 01 STATE 02 SITE NAMED TLD (281537780)
# PAST RESPONSE ACTIVITIES (Comment)	<u></u>	
01 D.R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	NA 02 DATE	
01 () S. CAPPING/COVERING 04 DESCRIPTION	NA O2 DATE	
01 (3 T. BULK TANKAGE REPAIRED 04 DESCRIPTION	NA OZ DATE	
01 () U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	NA OZ DATE	· · ·
01 [] V. BOTTOM SEALED 04 DESCRIPTION	NA O2 DATE	03 AGENCY
01 W. GAS CONTROL 04 DESCRIPTION	NA 02 DATE	,
01 D.X. FIRE CONTROL 04 DESCRIPTION	NA 02 DATE	03 AGENCY
01 D Y. LEACHATE TREATMENT 04 DESCRIPTION	NA 02 DATE	
01 () Z. AREA EVACUATED 04 DESCRIPTION	NA 02 DATE	
01 D 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	NA 02 DATE	03 AGENCY
01 [] 2. POPULATION RELOCATED 04 DESCRIPTION	NA 02 DATE	03 AGENCY
01 () 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	NA	03 AGENCY
	•	
ML SOURCES OF INFORMATION (Cor specific	oferences, a.g., state that, sample analysis, reports)	
FEDERAL AND St		
ELE FILES - REC	ant.	



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION

01 STATE OR SITE NUMBER

ICD 98077780

IL ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION (I) YES | 10 NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

SEE MERHIUE

MI. SOURCES OF INFORMATION (CHI SPECIE INFORMATION & B. STATE BILL, SERVING ANALYSIS, INCOME.)

FEDERAL AND STATE FILES ESE FILES- REGION II

APPENDIX C

FIT SITE PHOTOGRAPHS

SITE NAME: Flemming's SERVICE Station PAGE 1 OF 9

U.S. EPA ID: ILD981537780 TDD: FO5-8808-014 PAN: FILOGGYSB

DATE: 3/27/90

TIME: 0935

DIRECTION OF PHOTOGRAPH: North

VEATHER CONDITIONS:

SUN AND WIND

PHOTOGRAPHED BY: Tim MAYERS

(if applicable):

DESCRIPTION: close-up of SI location

SAMPLE ID

DATE: 3/27/90

TIME: 0935

DIRECTION OF PHOTOGRAPH:

WEATHER CONDITIONS: 250°F, UARLABLE

SUN AND WIND

PHOTOGRAPHED BY: Tim Mayges

SAMPLE ID (if applicable):

DESCRIPTION: passpective of SI



SITE NAME: Flemming's Service Station

PAGE Z OF 9

U.S. EPA ID: ILD981537780 TDD: FO5-8808-014

PAN: FILOGGYSB

DATE: 3/27/90

TIME: _ 0955

DIRECTION OF PHOTOGRAPH:

EAST

WEATHER CONDITIONS:

250°F LARIABLE

SUM AND WIND

PHOTOGRAPHED BY:

TIM MAYERS

SAMPLE ID

(if applicable):

DESCRIPTION: cluse-up of SZ location

DATE: 3/27/90

TIME: 0955

DIRECTION OF PHOTOGRAPH: EAST

VEATHER CONDITIONS: 1504, VARIABLE

SUN AUD WIND

PHOTOGRAPHED BY: Tim MAYERS

SAMPLE ID (if applicable):

DESCRIPTION: perspective of SZ (ocation; note tanks in BACKGROUND



SITE NAME: Flemming's Service Station

PAGE 3 OF 9

U.S. EPA ID: TLD981537780 TDD: FO5-8808-014

PAN: FILOGOYSIS

DATE: 3/27/90

TIME: __(015

DIRECTION OF PHOTOGRAPH: South

WEATHER CONDITIONS: ~50°F, VARIABLE

SUM AND WIND

PHOTOGRAPHED BY: TIM MAYERS

SAMPLE ID (if applicable):

DESCRIPTION: close-up of 53 location



DATE: 3/27/90

TIME: 1015

DIRECTION OF PHOTOGRAPH: south

VEATHER CONDITIONS: 150°F, UARIAble

SUM AND WIND

PHOTOGRAPHED BY: Tim Mayges

SAMPLE ID (if applicable):



DESCRIPTION: perspective of 53

SITE NAME: Flemming's Service Station

PAGE 4 OF 9

U.S. EPA ID: TLD981537780 TDD: FO5-8808-014

PAN: FILOGGYSB

DATE: 3/27/90

TIME: 1026

DIRECTION OF PHOTOGRAPH: SouthEAT

WEATHER CONDITIONS: 150 F VARIABLE

SUN AND WIND

PHOTOGRAPHED BY: TIM MAYERS

SAMPLE ID (if applicable):



DESCRIPTION: _____ close-up of 54 (acation

DATE: 3/27/90

TIME: (OZO

DIRECTION OF PHOTOGRAPH: SouthEAST

VEATHER CONDITIONS: 150°F, VARIABLE

SUN AND WIND

PHOTOGRAPHED BY: Tim Mayses

SAMPLE ID (if applicable):



DESCRIPTION: perspective of 54 location; note construction debrus

AND EQUIPMENT IN fOREGODOUND / BACKGROWND.

SITE NAME: Flemming's Service Station

PAGE 5 OF 9

U.S. EPA ID: ILD981537780 TDD: FO5-8808-014

PAN: FILOGGYSB

DATE: 3/27/90

TIME: 1050

DIRECTION OF PHOTOGRAPH: SouthEAST

WEATHER CONDITIONS: 4507, VARIABLE

SUN AND WIND

PHOTOGRAPHED BY: TIM MAYERS

SAMPLE ID (if applicable):



DESCRIPTION: close-up of SJ Cocation

DATE: 3/27/90

TIME: (050

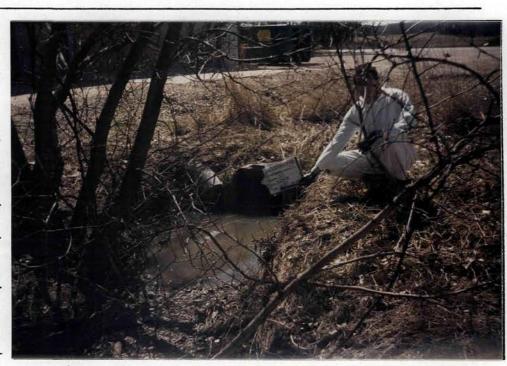
DIRECTION OF PHOTOGRAPH: SouthEAST

WEATHER CONDITIONS:

SUN AND WIND

PHOTOGRAPHED BY: Tim MAYERS

SAMPLE ID (if applicable):



DESCRIPTION: perspective of 55

SITE NAME: Flemming's SERVICE Station PAGE 6 OF 9

U.S. EPA ID: ILD981537780 TDD: FO5-8808-014 PAN: FILOGGYSTS

DATE: 3/27/90

TIME: _((30

DIRECTION OF PHOTOGRAPH:

NORTHWEST

VEATHER
CONDITIONS:

~50 F, VARIABLE

SUN AND WIND

PHOTOGRAPHED BY:

SAMPLE ID (if applicable):



DESCRIPTION: close-up of S6 location

DATE: 3/27/90

TIME: 1130

DIRECTION OF PHOTOGRAPH:

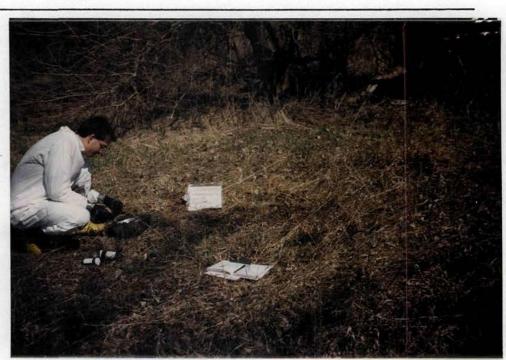
veather conditions: ~50 F variable

SUN AND WIND

PHOTOGRAPHED BY:

SAMPLE ID (if applicable):

DESCRIPTION: perspective of 56 location



SITE NAME: Flemming's SERVICE Station

PAGE 7 OF 9

U.S. EPA ID: ILD981537780 TDD: FO5-8808-014

PAN: FILOGGYSB

DATE: 3/27/90

TIME: 1135

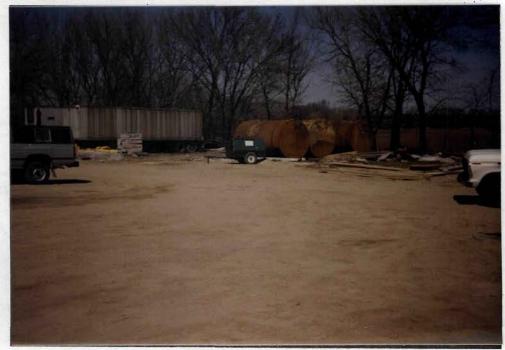
DIRECTION OF PHOTOGRAPH: NorthWEST

VEATHER CONDITIONS: 150 F, VARIABLE

SUM AND WIND

PHOTOGRAPHED BY: TIM MAYERS

SAMPLE ID (if applicable):



DESCRIPTION: REAR of SITE; NOTE FANKS AND FRANCES

DATE: 3/27/90

TIME: 1140

DIRECTION OF PHOTOGRAPH: southwest

VEATHER CONDITIONS: 450°F, UARIAble

JON AND WIND

PHOTOGRAPHED BY: Tim Mayses

SAMPLE ID (if applicable):



DESCRIPTION: photo taken from northeast corner of site

SITE NAME: Flemming's SERVICE Station

PAGE 8 OF 9

U.S. EPA ID: TLD981537780 TDD: FO5-8808-014

PAN: FILOGGYSB

DATE: 3/27/90

TIME: 1(50

DIRECTION OF PHOTOGRAPH:

EAST

VEATHER CONDITIONS: - 50°F, UARIAble

SUN AND WIND

PHOTOGRAPHED BY: Tim MAYERS

SAMPLE ID (if applicable):



shots shows front of Building on-SITE

DATE: 3/27/90

TIME: /Zoo

DIRECTION OF PHOTOGRAPH: Morth

VEATHER CONDITIONS: 250°F, VARIABLE

SUN AND WIND

PHOTOGRAPHED BY: Tim Mayses

SAMPLE ID (if applicable):

photo shows front of Building on-SITE from Ackass Rt. 20 (Grant St.)

	FIELD PHOTOGRAPHY LOG SHEE	
SITE NAME: FLEMMIN	ng's Service Station	PAGE 9 OF 9
	37780 TDD: FOS-8808-014	PAN: FILOGOYSB
DATE: 3/2 8/90		
TIME: 1045	The second secon	
DIRECTION OF	Million College	A Company of the
PHOTOGRAPH:	The second secon	
WEST	SUTE ILL DIS 1537780	14 74
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CONDITIONS:	TIME 10:45 /805, PM	· 自由
~50F, VARIABLE	() [] [] [] [] [] [] [] [] [] [1000 1000 1000 1000 1000 1000 1000 100
WIND AND SUN	A STATE OF THE STA	
		THE WAR WAR
PHOTOGRAPHED BY:Chuck Flall		
SAMPLE ID	W /	
(if applicable): _ 尽い!		

DESCRIPTION: phono shows for from which PWI was collected

DATE: 3/28/90

TIME: 1115

DIRECTION OF PHOTOGRAPH: WEST

VEATHER

SAMPLE ID

(if applicable): アルミ

LAP from which RW3

WAS collected



APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND
TARGET ANALYTE LIST
QUANTITATION/DETECTION LIMITS

ADDENDUM A

ROUTINE ANALYTICAL SERVICES CONTRACT REQUIRED DETECTION AND QUANTITATION LIHITS

Contract Laboratory Program Target Compound List Quantitation Limits

COMPOUND	CAS #	VATER	SOIL SEDIMENT SLUDGE
	7/ 07 2	10/1	10 (77
Chloromethane	74-87-3	10 ug/L 10	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	5	10
Methylene chloride	75-09-2		5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10 -
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5 5	5
Trichloroethene	79-01-6		5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5 5 5 5	5 5 5 5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	
Bromoform	75-25-2	5	5
4-Hethyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Tolene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5 5 5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5 5	5 5 5 5 5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOSINI	CAS A	WARR	SOIL SEDIMENT
COMPOUND	CAS #	VATER	SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330
		AV	220

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

			SOIL SLUDGE
COHPOUND	CAS ‡	VATER	SEDIMENT
Fluorene .	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Rexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330-
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

			SOIL SEDIMENT
COMPOUND	CAS #	VATER	SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4.4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4.4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A
Contract Laboratory Program
Target Analyte List
Inorganic Quantitation Limits

COMPOUND	PROCEDURE	SOIL WATER	SEDIHENT SLUDGE
Aluminum .	ICP	200 ug/L	40 mg/Kg
Antimony	Furnace	60	2.4
Arsenic	Furnace	10	2
Barium	ICP	200	40
Beryllium	ICP	5	1
Cadmium	ICP	5	1
Calcium	ICP	5000	1000
Chromium	ICP	10	2
Cobalt	ICP	50	10
Copper	ICP	25	5
Iron	Icp	100	20 -
Lead	Furnace	5	1
Magnesium	ICP	5000	1000
Manganese	ICP	15	3
Mercury	Cold Vapor	0.2	0.008
Nickel	ICP	40	8
Potassium	ICP	5000	1000
Selenium	Furnace	5	1
Silver	ICP	10	2
Sodium	ICP	5000	1000
Thallium	Furnace	10	2
Vanadium	ICP	50	10
Zinc	ICP	20	4
Cyanide	Color	10	2

SPECIAL ANALYTICAL SERVICES DETECTION LIHITS

Drinking Vater Samples

SPECIAL ANALYTICAL SERVICES DRINKING VATER VOLATILE QUANTITATION LIKITS

PARAMETER -	CAS f	DETECTION LIHIT IN REAGENT VATER
Benzene	71-43-2	1.5 ug/L
Bromodichloromethane	74-27-4	1.5
Bromoform	75-25-2	1.5
Bromomethane	74-83-9	10
Carbon tetrachloride	56-23-5	1.5
Chlorobenzene	108-90-7	1.5
Chloroethane	75-00-3	1.5
2-Chloroethyl vinyl ether	110-75-8	1.5
Chloroform	67-66-3	1.5
Chloromethane	74-87-3	10
Dibromochloromethane	124-48-1	1.5
1,1-Dichloroethane	75-34-3	1.5
1,2-Dichloroethane	107-06-2	1.5
1,1-Dichloroethene	75-35-4	1.5
trans-1,2-Dichloroethene	156-60-5	1.5
1,2-Dichloropropane	78-87-5	1.5
cis-1,3-Dichloropropene	10061-01-5	2
trans-1,3-Dichlopropropene	10061-02-6	1
Ethyl benzene	100-41-4	1.5
Kethylene chloride *	75-09 -2	1
1,1,2,2-Tetrachloroethane	79-34-5	1.5
Tetrachloroethene	127-18-4	1.5
Toluene *	108-88-3	· 1.5
1,1,1-Trichloroethane	71-55-6	1.5
1,1,2-Trichloroethane	79-00-5	1.5
Trichloroethene.	79-01-6	1.5
Vinyl chloride	75-01-4	10
Acrolein	107-02-8	100
Acetone *	67-64-1	75
Acrylonitrile	107-13-1	50
Carbon disulfide	75-15-0	3
2-Butanone	78-93-3	(50)
Vinyl acetate	108-05-4	15
4-Hethyl-2-pentanone	108-10-1	(3)
2-Bexanone	519-78-6	(50)
Styrene	100-42-5	1
m-Xylene	108-38-3	2
o-Xylene **	95-47-6	
p-Xylene **	106-42-3	2.5 **
Xylene (total)	1330-02-7	

Common laboratory solvents.
 Blank limit is Sx method detection limit.

 ^() Values in parentheses are estimates.
 actual values are being determined at this time.

^{**} The o-xylene and p-xylene are reported as a total of the two.

SAS DRINKING VATER SEHIVOLATILES QUANTITATION LIHITS

		DETECTION		
PARAHETER	CAS #	LIKIT		
Aniline	62 -53-3	1.5 ug/l		
Bis(2-chloroethyl)ether	111-44-4	1.5		•
Phenol	108-95-2	2		
2-Chlorophenol	95-57-8	2		
1,3-Dichlorobenzene	54 1-73-1	2		
1,4-Dichlorobenzene	106-46-7	- 2		
1,2-Dichlorobenzene	95-50-1	2.5		•
Benzyl alcohol	100-51-6	2		
Bis(2-chloroisopropyl)ether	39638 -32-9 .	2.5		
2-Kethylphenol	95 -48- 7	1		
Hexachloroethane	67-72-1	2		
n-Nitrosodipropylamine	621-64-7	1.5		
Nitrobenzene	. 98 -95-3	2.5		
4-Hethylphenol	88 -75- 5	1		
Isophorone	78-59-1	2.5		
2-Nitrophenol	88-75-5	2		
2,4-Dimethylphenol	105-67-9	2		
Bis(2-Chloroethoxy)methane	111-91-1	2.5		
2,4-Dichlorophenol.	120-83-2	2		_
1,2,4-Trichlorobenzene	120-82-1	2		
Naphthalene	91-20-3	2 .		
4-Chloroaniline	106-47-8	2		
Rexachlorobutadiene	· 87-68-3	2.5		÷ .
Benzoic Acid	65-85-0	(30)		•
2-Kethylnapthalene · ·	91-57-6	Ž -	•	:4
4-Chloro-3-sethylphenol	59-50-7	1.5		
Hexachlorocyclopentadiene	> 77-47-4	2		
2,4,6-Trichlorophenol	88-06-2	1.5		• •
2,4,5-Trichlorophenol	· 95-95-4	1.5	_	
2-Chloronapthalene	91-58-7	1.5	-	
Acenapthylhene	2 08 -96-8	1.5		•
Dimethyl phthalate	131-11-3	1.5		
2,6-Dinitrotoluene	606-20-2	1		
Acenaphthene	83-32-9	1.5		
3-Nitroaniline	99-09-2	2.5		
Dibenzofuran	132-64-9	1		
2,4-Dinitrophenol	51-28-5	(15)		
2,4-Dinitrotoluene	121-14-2	1		
•				

SAS DRINKING VATER SEHIVOLATILE QUANTITATION LIKITS

		DETECTION	
PARAHETER	CAS \$	LIKIT	
Fluorene	86-7 3- 7	1 ug/L	
4-Nitrophenol	100-02-7	1.5	
4-Chlorophenyl phenyl ether	7005- 72-3	1	
Diethyl phthalate	84-66-2	1	
4,6-Dinitro-2-methylphenol	534-52-1	(15)	
1,2-Diphenylhydrazine	122-66-7	1	
n-Nitrosodiphenylamine *	86-3 0-6		
Diphenylamine *	122-39-4	1.5	
4-Nitroaniline	100-01-6	3	
4-Bromophenyl-phenylether	101-55-3	1.5	
Hexachlorobenzene	118-74-1	1.5	•
Pentachlorophenol	87-86-5	2	
Phenanthrene	85 -01-8	1	
Anthracene	-120-12-7	2.5	-
di-n-Butyl phthalate	84-74-2	2 °	
Fluoranthene	206-44-0	1.5	
Pyrene	129-00-0	1.5	
Butyl benzyl phthalate	85-68-7	3.5	
Chrysene **	218-01-9		
Benzo(A)Anthracene **	56-5 5-3	1.5	
bis(2-ethylhexyl)phthalate	117-81-7	1	
di-n-Octyl phthalate	117-84-0	1.5	
Benzo(b)fluoranthene ***	205-99-2		
Benzo(k)fluoranthene ***	207-08-9	1.5	
Benzo(a)pyrene	50-32-8	2	
Indeno(1,2,3-cd)pyrene	193-39-5	3.5	
Dibenzo(a,h)anthracene	53-70-3	2.5	
Benzo(g,h,i)perylene	191-24-2	4	
2-Nitroaniline	88-74-4	1	

^{*} These two parameters are reported as a total.

Note: Limits are for reagent vater.

^{**} These two parameters are reported as a total.

^{***} These two parameters are reported as a total.

^() Values in parentheses are estimates.

The actual values are being determined at this time.

SAS DRINKING VATER PESTICIDE AND PCB QUANTITATION LIHITS

		DETECTION	
PARAHETER	CAS I	LIHIT	
Aldrin	309-00-2	0.005 ug/L	
alpha BBC	319-84-6	(0.010)	
beta BHC	319-85-7	(0.005)	
delta BBC	319-86-8	(0.005)	
gamma BHC (Lindane)	58-89-9	0.005	
Chlordane	57-74-9	(0.020)	
4,4°-DDD	72-54-8	(0.020)	
4,4'-DDE	72-55-9	(0.005)	
4,4'-DDT	50-29-3	0.020	
Dieldrin	60-57-1	0.010	
Endosulfan I	959-98-8	0.010	
Endosulfan II	33213-65-9	0.010	
Endosulfan sulfate	1031-07-8	(0.10)	
Endrin	72-20-8	0.010	
Endrin Aldehyde	7421-93-4	(0.030)	
Endrin Ketone	53494-70-5	(0.030)	
Beptachlor	76-44-8	0.030	•
Beptachlor Epoxide	1024-57-3	0.005	
4,4'-Hethoxychlor	72-43-5	0.020	
Toxaphene	8001-35-2	(0.25)	• •
PCB-1242	53469-21-9	(0.10)	
PCB-1248	12672-29-6	(0.10)	
PCB-1254	11097-69-1	(0.10)	
PCB-1260	11096-82-5	(0.10)	•

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Note: Limits are for reagent water.

⁽⁾ Values in parentheses are estimates.
Actual values are being determined at this time.

SAS DRINKING VATER INORGANIC DETECTION LIHITS .

JANUARY 1986

		DETECTION		
PARAHETER	PROCEDURE	LIHIT		
Aluminum	ICP	100		
Antimony	GFAA	2		
Arsenic	GPAA	2		
Barium	ICP	50		
Beryllium	ICP	5		
Cadmium	ICP	10		
Cadmium	GFAA	0.2		
Calcium	ICP	1000		
Chronium	ICP	10		
Cobalt	ICP ·	10		
Copper	ICP	10		
Iron	ICP	100	•	
Lead	GFAA	2		
Kagnesium	ICP ·	1000		
Kanganese	ICP	10		
Kercury	Cold Vapor	0.2		
Nickel	ICP .	20		
Potassium	ICP	2000		
Selenium	GPAA	2		
Silver	ICP	5		
Sodium	ICP	1000		
Thallium	GFAA	2	-	
Tin	ICP	40		
Vanadium	ICP	10		
Zinc	ICP .	20		
Cyanide	Colorimetric	5.0		

Note: The above list may or may not contain compounds that are routinely analyzed at CRL for low level detection limits for drinking water.

See inorganic Routine Analytical Services (RAS) for related CAS #.

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

White Copy — 111. Dept. of Public Health Yellow Copy — Wall Contractor Blue Copy — Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

	Curb mate	rial Bu	ried Slab: Yes.	
	c. Drilled _2	Drive Pipe Finished i Gravel Pa	n Drift	In Rock
	d. Grout:	(KIND)	FROM (Ft.)	TO (Pt.)
		Cuttings	0	120
2.	Distance to N	LO Ft.		eld
	Cess Pool			iron)
	Privy		진행 하나 이 아름이 되었다면 그 사람이 아름이 아름이 되었다.	1)
75277				
3.	Well furnishes	s water for human	consumption? Y	es No
4.	Date well con	npleted $10/15$	× D+ 10	715/834
5.	Permanent Pu	imp Installed? Yes	Subra L	vianin rell
	Manutacturer	gpm. Depth of	Sauting Ed.	F.
•	Wall Tax Sax	led? Yes X No.	Tune 15	llions Con
7	Pitters Adm	ter Installed? Ye	- Type -	Name of the latest of the late
٠.	Manufacturer	/illiams	Model Num	ber 35040
		to casing? Loc		
A		ted? Yes		
		uipment Disinfecte		No
10	Pressure Ton	k Size 120 gal.	Type Galy	
		Bacement		
11.	Water Sample	Submitted? Yes	No	<u> </u>
	MARKS:			

GEOLOGICAL AND WATER SURVEYS WELL RECORD

	Casing	and Lines	Pipe	From (Ft.		—
	Length	:ft.	Slot_		je. <u>(ii.</u> ev	- [
14.	at dept Screen:					
12.	Water f	PE RS				
11.	Driller Permit	→				
10.	Propert Addres	manus.				

Diam. (in.)	Kind and Weight	From (FL.)	To (Ft.)	LOCATION IN
5" .	Black Steel	0	120	SECTION PLAT
	15 lbs per ft			340 35.140
	1) 105 per 10			

16. Size Hole below casing: 5 in.

17. Static level 20 ft. below casing top which is 1 the above ground level. Pumping level 20 ft. when pumping at 10 gpm for 10 hours.

8. FORMATIONS PASSED THROUGH	in e	THICKNESS	DEPTH OF
Top Soil	•	?	5
Gray Clay		110	120
Limestene w/ Shale		20	150
Limestone		22	172

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Manual DATE 10/30/1

Copy - Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

	Curb material	 -'-	Buried Slab: Yes.	No
	b. Driven			
	c. Drilled X			
	d. Grout:	(KIND)	FROM (Ft.)	TO (Ft.)
**				
2.	Distance to Nearest:		Samuel Tile Fi	eld
	Building			iron)
	Cess Pool		25-27-	1)
	Privy		- 2	
	Septic Tank			
•	Leaching Pit Well furnishes water			
3.	well lumishes water	ior numar	consumption: 1	es_X140
	The second secon		4 /40 /770	
4	Date well completed	11 10 V	1/13/78	
4	Permanent Pump Inst	alled? Y	es_xDate	No
4. 5.	Permanent Pump Inst	alled? Y	es_x_Date	No
4. 5.	Permanent Pump Inst	alled? Y	es_x_Date	No
4. 5.	Permanent Pump Inst	alled? Y	es_x_Date	No
4. 5.	Permanent Pump Inst Manufacturer Aermot Capacity gpm. Well Top Scaled? Ye Pitless Adapter Inste	or T Depth o	es x Date	NoFt.
4. 5.	Manufacturer Aermot Capacity gpm. Well Top Scaled? Ye Pitless Adapter Insta	olled? Y Or T Depth or X N Alled? Y	es x Date	NoNoFt. watertite her snappOy
4. 5. €. 7.	Manufacturer Aermot Capacity gpm. Well Top Scaled? Ye Pitless Adapter Insta Manufacturer Baker How attached to casi	alled? Y Or T Depth o s X N dled? Y r-monit	es x Date ype sub Loca f Setting Type Ges X No Or Model Num compres	No
4. 5. €. 7.	Manufacturer Aermott Capacity gpm. Well Top Scaled? Ye Pitless Adapter Inste Manufacturer Baker How attached to casi Well Disinfected?	alled? Y or T Depth o s_X N dled? Y -monit	es x Date ype sub Loco f Setting Type (es X No Or Model Num compres	No
4. 5. €. 7.	Manufacturer Aermott Capacity gpm. Well Top Scaled? Ye Pitless Adapter Inste Manufacturer Baker How attached to casi Well Disinfected?	alled? Y Depth o sX N dled? Y monit ng? Yes_X Disinfec	es x Date ype sub Loco f Setting	NoNoFt. watertite bersnappOy sion
4. 5. €. 7.	Permanent Pump Inst Manufacturer Aermot Capacity gpm. Well Top Scaled? Ye Pitless Adapter Inste Manufacturer Baker How attached to casi Well Disinfected? Pump and Equipment Pressure Tank Size	alled? Y or T Depth of S N Alled? Y r-monit ng? Yes X Disinfect Y gal	es x Date ype sub Loco f Setting	NoNoFt. watertite bersnappOy sion
4. 5. 6. 7. 8. 9.	Manufacturer Aermott Capacity gpm. Well Top Scaled? Ye Pitless Adapter Inste Manufacturer Baker How attached to casi Well Disinfected?	alled? Y or T Depth o es X N dled? Y monit ng? Yes X Disinfec	es_x_Date_ ype_sub_Loco f Setting oType_ (es_X_No OrModel Num compresNo ted? Yes_X TypeCor.	No

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Permit 2. Water fr at depth 4. Screen: Length: W/bail	er nook nd Liner Pipe	E16V	/·			
Diam. (in.)	Kind and Weight	From (Ft.)	To	(FL)		SHOW
5	PVC	1	51		SEC.	CATION I
						1, 300 a
					11.	adow 1
7. Static lev above gro	below casing: 5 vel 25 ft. below ca ound level. Pumping le 2 hours.	sing top which	ch i wh	s	_1	
7. Static levabove grapm for _	vel <u>25</u> ft. below ca ound level. Pumping le	sing top whice evel <u>35</u> ft.	wh	s	npinq	
7. Static lev above gr gpm for _ 8. For Top soil	vel _25_ft. below co bund level. Pumping le _2_hours.	sing top whice evel <u>35</u> ft.	wh	s	1 npinq	DEPTH O
7. Static lev above gr gpm for _ 8. For Top soil	vel _25_ft. below ca ound level. Pumping le _2_hours.	sing top whice evel <u>35</u> ft.	wh	sen pur THICKS	npinq	g at
7. Static lev above gr gpm for _ 8. For Top soil	vel _25_ft. below co bund level. Pumping le _2_hours.	sing top whice evel <u>35</u> ft.	wh	s	npinq	DEPTH O
7. Static levalore graph for8. For Top soil Pink clay	vel _25_ft. below co bund level. Pumping le _2_hours.	sing top whice evel <u>35</u> ft.	wh	sen pur THICKS	npinq	DEPTH OF BCTTOM
7. Static levabove gragem for _ 8. For Top soil Pink clay Gray clay	yel _25_ft. below co bund level. Pumping le _2_hours. EMATIONS PASSED THRO y and gravel	sing top whice evel <u>35</u> ft.	wh	s en pun THICKN	npinq	DEPTH O BETTOM 12 20
7. Static levalore graph for8. For Top soil Pink clay Gray clay Gravel (s	yel _25_ft. below co bund level. Pumping le _2_hours. EMATIONS PASSED THRO y and gravel	sing top whice evel <u>35</u> ft.	wh	s_en pur THICKE	npinq	12 20 58

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

	b. Driven c. Drilled Tubular	Drive Pip X Finished	in Driftin.	
	d. Grout:	(KIND)	FROM (FL.)	TO (Ft.)
		Gravel	0 .	244
2.	Distance to N Building Cess Pool Privy Septic Tank	20 Ft.	Sewer (non Cast Sewer (Cast iron) Barnyard	iron)
2	Well furnished	water for human	consumption? Y	
4	Date well con	plated 7	1/28/80	
5.	Permanent Pu Manufacturer	mp Installed? Y Fairbanksī	Date 7/28 Morse Subocal Setting 120	8/80 No ion in well
6.	Well Top Seal	ed? Yes X N	oType Wil	liams Cap
7.	Manufacturer.	Williams	Yes X No Model Numb	er <u>B50aC</u>
8.	Well Disinfec	ted? Yesx	No	
9.	Pump and Equ	ipment Disinfect	ed? Yes_x_	No
10.	Pressure Ton	k Size_ <u>EO</u> gal	. Type Well	X Trol

VAL PRIVACY				
(B) 6. PERSON		Elev	·	
5. Casing Diam. (in.)	and Liner Pipe	From (Ft.)	To (FL)	SHOW
511	Galv. Steel	0	CI I	OCATION IN
	15 lbs per ft			49 Home set Unit
				Frantija
gpm fo	r _4_ hours.			
	ORMATIONS PASSED THROU	юн	THICKNES	BOTTOM
	ORMATIONS PASSED THROU	igh .	THICKNES	DEPTH OF BOTTOM
8.	ORMATIONS PASSED THROU	Т		
8. Top So	ORMATIONS PASSED THROU)GH	2	2
8. Top So	ORMATIONS PASSED THROU)GH	2 240	2 242
8. Top So	ORMATIONS PASSED THROU	JGH TGH	2 240	2 242
8. Top So	ORMATIONS PASSED THROU	JGH JGH	2 240	2 242
8. Top So	ORMATIONS PASSED THROU)GH	2 240	2 242
8. Top So	ORMATIONS PASSED THROU	JGH JGH	2 240	2 242

(B) 6. PERSONAL PRIVACY

Property owner	Well No	0
Drilled by SILVIUS DROS	_Year	47
Formations passed through	Thick-	Depth of Bottom
clay-	215	295
gravel	23	318
shale	150	468
limentone	107	575
glen word	20	605
san detone	15	620
. 1		0
1	1	
79.	a jugar	
Cased withfrom 0	to 3	18 R
and inch from	to	ft
Size hole below casinginch, Static level from su	rd	7 <u>5</u> ft
Tested capacity 9 gal. per min. Temperat	ure	'P.
Water lowered to 200 ft in, in	1	5 min.
Length of test 5 hrs min, Screen		
Slot Diam Length Bottom : [Show location in Se	et at ction Plat	1 (
Township name PILET Elev F	T s	sec
Description of location /505 /00 E	П,	_ BN 1
NWC SW WW MM		Twp. 75%
		Sge
Signed Dan Silvines County Mc H	EN	Rr_
Copy for Illinois State Water Survey Index:		

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Itt, Deut. of Public Health
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Blue Copy — Well Owner

FILL IN ALL PERTINENT IN , RMATION REQUESTED AND MAIL OSIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well a. Dug Bore	. u.	la Diam 5 i	n Depth 425ft
	Cush metasial	R	ried Slah: Yes	No
	b. Driven	. Drive Pip	e Diamin	. Depthtt.
	c. Drilled			
	d. Grout:	(KIND)	FROM (Ft.)	
	be	stoute		
2.	Distance to Neares		2001 (2000) Lin 20	
	Building	Ft.	Seepage Tile Fi	eld
	Cess Pool		Sewer (non Cast	iron)
	Privy		Sewer (Cast iron	n)
	Sentic Tank	0	Barnyard	
	Leaching Pit Well furnishes water		Manure Pile	/
3.	Well furnishes water	er for human	consumption? }	esNo
4.	Date well complete	d 12	stinter 18	1975
5	Permonent Pump In	stalled? Ye	s Date	No
٠.	Manufacturer	Tv	De Loca	rtion
	Capacitygp	m Denth of	Setting	Ft
_	Well Top Sealed?	Yas No	Type	
7	Pitless Adapter Ins	talled? Y	es No	
/.	Manufacturer	starear r	Model Num	her
	Warm attached to go	eing?	model man	
•	How attached to ca Well Disinfected?	Var.	No	
٥.	Pump and Equipme	-t Disinfacts	d2 Yes	No
3.	Pressure Tank Size	nt Disiniect	Tune	
	Location	24		
11.	Water Sample Subm	itted? Yes	No	
RE				this well.
	سعالنا	,,,,	2 16	785 IX
				(5)

10. JYN 11. 12. OS 14. Hd	OCICIA IND WATER	CHONEVC	WELL D	560	-
15. Diem. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	SEC.	SHOW CATION IN TION PLAT
16. Size Ho	evel 150 ft. below cas	in.	h is	SE 1	ft.
gpm for	nound level. Pumping level. hours.	100	THICK		DEPTH OF BOTTOM
gravel			4	_	8
grade	P		3		62
"Clay white	Lineaton		25.	_	3/3 425
			-		
(CONTINUE	ON SEPARATE SHEET IF	NECESSARY			
SIGNED A	. 9. Ston & Son :		TE_//-	24.	75-

of Public Health III. C / - Well Contractor Yellov Blue C -- Well Owner -

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GEOLOGICAL AND WATER SURVEYS WELL RECORD

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well a. Dug Bored Hole Diamin. Depth 126 ft. Curb material Buried Slab: YesNo b. Driven Drive Pipe Diamin. Depthft. c. Drilled XX Finished in Drift XX In Rock Tubular Gravel Packed d. Grout: (KIND) FROM (Ft.) To (Ft.)	10. Property Add Drilly 11. Per 12. Wat of 14. Screen Length	and Liner Pipe	Elev	··	
		Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	SHOW OCATION IN
		5	15 per. ft.	0	726 88	S'S SE'E
2.	Distance to Negrest: Building 44D Ft Seepage Tile Field				76	8 3 300
	Building #D Ft. Seepage Tile Field Cess Pool Sewer (non Cast iron)					
3.	Septic Tank 80 Barnyard Barnyard Is water from this well to be used for human consumption?	17. Static le above gr	e below casing: 5 vel 40 ft. below ca ound level. Pumping la hours.	sing top which		
	Vac XX No.	18. FOI	RMATIONS PASSED THRO	UGH	THICKNES	S DEPTH OF BOTTOM
4.	Date well completed Sept. 8,1971				-	
5.	Permanent Pump Installed? Yes XX No No Carb		rill .		0-25	25
	Manufacturer Barnes Type Sub Capacity O gpm. Depth of setting 63 ft.		Sand + Branch	<u></u>	25-126	126
c	Well Top Sealed? Yes XX No No					
	Pitless Adaptor Installed? YesNo					ial.
	Well Disinfected? Yes XX No					
	Water Sample Submitted? Yes XX No	9-14-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		· · · · · · · · · · · · · · · · · · ·		
REN	MARKS:					
	©					
				anagyanaa — p		
		(CONTINUE	ON SEPARATE SHEET I	F NECESSARY)	
1DI	PH 4.065	SIGNED C	Taul Bar	fren DA	TE 8 -	5-71

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The Water of

FILL IN ALL PERTINENT INFC. TION REQUESTED AND MAIL ORIGINAL TO STATE DE-PARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

	Tubular				
	d. Grout:	(KIND)	FROM (Ft.) 1	ro (Ft.)
		7-1 1-11-12	3		22
	:		l.		<i>y 397-1-2-17</i> .
2.	Distance to Near	est:	25-2 C-2007 C	100 Table 2012 1	1
	Building /5	Ft.	Seepage Til	Field_	2 3 7
	Cess Pool	NE	Sewer (non (Cast iron)	
	Privy	<u> </u>	Sewer (Cast	iron)	1 2 1 1 2
	맛이 그래 그래, 그				
	Privy	1 1 1 1 1 1 1	Barnyard		
	Leaching Pit	· · · · · · · · · · · · · · · · · · ·	Manure Pile	1/1	ν' <u>Γ</u> :
	Is water from this Yes	well to be	Manure Pile used for human	consump	ν' <u>Γ</u> :
A	Is water from this YesN	well to be	Manure Pile used for human	consump	tion?
A	Is water from this YesN Date well comple Permanent Pump	well to be to lo	Manure Pile used for human	consump	tion?
A	Is water from this YesN Date well comple Permanent Pump	well to be to lo	Manure Pile used for human	consump	tion?
4 . 5.	Leaching Pit Is water from this Yes N Date well comple Permanent Pump Manufacturer Capacity	well to be to lo	Manure Pile used for human Yes Type epth of setting.	consump No	tion?
4 . 5.	Leaching Pit Is water from this Yes N Date well comple Permanent Pump Manufacturer Capacity Well Top Sealed?	well to be to be ted	Manure Pile used for human YesType_ epth of setting.	consump No	tion?
4 . 5. 6. 7.	Leaching Pit Is water from this Yes N Date well comple Permanent Pump Manufacturer Capacity Well Top Sealed? Pitless Adaptor I	well to be to be ted	Manure Pile used for human YesType_ epth of setting. YesNo	No	tion?
4. 5. 6. 7.	Leaching Pit Is water from this Yes N Date well comple Permanent Pump Manufacturer Capacity Well Top Sealed? Pitless Adaptor I	well to be to be ted	Manure Pile used for human YesType_ epth of setting. YesNo	No	tion?
4 . 5. 6. 7. 8.	Leaching Pit Is water from this Yes N Date well comple Permanent Pump Manufacturer Capacity Well Top Sealed?	well to be to lo	Manure Pile used for human Yes Type_ epth of setting. Yes No	No	tion?
4 . 5. 6. 7. 8. 9.	Leaching Pit	well to be to lo	Manure Pile used for human Yes Type_ epth of setting. Yes No	No	tion?

GEOLOGICAL AND WATER SURVEYS WELL RECORD

	AL P. M.					
1. Permit 2. Water f	5					
at dept	Ŷ.					
4. Screen:						
Length	0(0)					
5. Casing	and Liner Pipe		Elev	/. 	\top	
Diam. (in.)	Kind and	Veight	From (Ft.)	To (Ft.)	1.0	SHOW CATION IN
~	ムケナック	15=	1 1500=	145	SEC	TION PLA
01-200 (10-1)						\$ 3300
2000		district Product			NE	ENW SE
7. Static le above g gpm for	le below casing evelft. h round level. Puhours.	umping le	vel <u>/23/</u> ft.	when pu		g at <u> </u>
7. Static le above g gpm for	evelft. b round level. Pu	umping le	vel <u>/23/</u> ft.	when pu		g at <u> </u>
7. Static le above g gpm for 8. FO	evel 70 ft. b round level. Pu hours.	umping le	vel <u>/23/</u> ft.	when pu		g at <u> </u>
7. Static le above g gpm for 8. FC	evelft. bround level. Puhours.	umping le	vel <u>/23/</u> ft.	when pu		g at <u> </u>
7. Static le above g gpm for 8. Fo	evelft. bround level. Property hours.	umping le	vel <u>/23/</u> ft.	when pu	NESS	g at <u> </u>
7. Static le above g gpm for 8. Fo	evel 70 ft. bround level. Pround level. Pround level. Pround hours. CHAPTER TOWNS PASSIFICATIONS PASSIFICATION	umping le	vel <u>/23/</u> ft.	THICK	NESS	DEPTHONE 10 1 9 1
7. Static le above g gpm for 8. Fo	evelft. bround level. Pu hours. RMATIONS PASSI CL+F F 7 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	umping le	vel <u>/23/</u> ft.	THICK	NESS	g at <u>7 5</u>
7. Static le above g gpm for 8. Fo	evelft. bround level. Pu hours. RMATIONS PASSI CL+F F 7 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	umping le	vel <u>/23/</u> ft.	THICK	NESS	g at <u>7 5</u>
7. Static le above g gpm for 8. Fo	evelft. bround level. Pu hours. RMATIONS PASSI CL+F F 7 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	umping le	vel <u>/23/</u> ft.	THICK	NESS	g at <u>7 5</u>
7. Static le above g gpm for 8. Fo	evelft. bround level. Pu hours. RMATIONS PASSI CL+F F 7 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	umping le	vel <u>/23/</u> ft.	THICK	NESS	g at <u>7 5</u>
7. Static le above g gpm for 8. Fo	evelft. bround level. Pu hours. RMATIONS PASSI CL+F F 7 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	umping le	vel <u>/23/</u> ft.	THICK	NESS	g at <u> </u>

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INSTRUCTIONS TO DRILLERS

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

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tion?
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GEOLOGICAL	AND	WATER	SURVEYS	WELL	RECORD
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	GEULU	GICAL AND WATER	20HAF12	WELL	RECORD
10.	Propert Address Driller				
11.	Permit 5				
12.	Water fr				
14.					
_		nd Liner Pipe	Lie		SHOW
Dia	m. (in.)	Kind and Weight	From (Ft.)		LOCATION IN
-	5	steel xpx 14	0	100	NW MUSE
	Static lev above gro	e below casing: 5 rel #5 ft. below cas ound level. Pumping lev # hours.			
·-	PAR	WATIONS BASSED THROU	CH	THICK	WESS DEPTH OF

8.	FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
-	TOP 501L	10	10
	SAND	30	40
	CLAY	30	70
	SAND	10	80
_<	SAND Y GRAVE	10	90
	GRAVEL	10	100
¥	**		
4.4000			

(Continue on Se	Parate sheet if Nec	CESSARY)	9200	
	blinkle	CI	07	1
IGNED	6/1/200	- N X	8-1	/
IGNED -	M. W. C.	DATE		

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FILL IN ALL PERTINENT IN A GATION REQUESTED AND MAIL OSIGNAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER MEALTH PROTECTION, 535 MEST JEFFERSON, SPRINGFIELD, ILLINGIS, \$2731. DO NOT GETACH GETLOGICAL WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH' WELL CONSTRUCTION REPORT

1.	Type of Well			D () 4055
	a. Dug Bo			
	Curb material	Bı	iried Slab: Yes_	No
	b. Driven	Drive Pip	e Diamin.	Depthft.
	C. Diriica			
		Gravel Po	icked	
	d. Grout:	(KIND)	PROM (Ft.)	TO (F1)
	}			
	<u> -</u>			
	 -			
	<u>_</u>		L	
2.	Distance to Neur	est:		
	Building	Ft.	Secpage Tile Fig	eld
	Cess Pool			iron)
	Privy		Sewer (Cast iron)
	Septic Tank		Barnyard	
	Leaching Pit		Manure Pile	
3.	Well furnishes wo	iter for human	consumption? Y	esX_No
4.	Date well compie	ted	4/27/77	
5.	Permanent Pump	Installed? Ye	s_X_Date	No
	Manufacturer Aer	mtotor Ty	pe <u>Sub.</u> Loca	tion
	Capacity 8	on. Depth of	Setting	L10 Ft.
6.	Well Top Sealed?	Yes_X No	Type	<u>watertite</u>
7.	Pitless Adapter I	installed? Y	esX No	
	Manufacturer B	aker-monit	or Model Numl	er snappy
	How attached to	casing?	compres	sion
	Well Disinfected	? Yes <u>X</u>	No	
9.	Pump and Equipa	nent Disinfect	ed? Yes <u>X</u>	No
10.	Pressure Tank Si	ize <u>60</u> gal.	Type <u>Meda</u>	list
	Location			
11.	Water Sample Sub	mitted? Yes	No	<u> </u>
	MARKS:			•

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10.	Propert	y owner Mr. Gene Mey	er	Well No	
	Addres	s 6105 Meyer Rd.	Marer	ngo, Ill.	
	Driller	William M. Boetsch	Licens	e No. <u>92</u>	-436
	Permit	No	Date	_,4/28/77	
12.	Water f	rom Limestone	13. Cow	nty <u>McHe</u>	nry
	at dept	th xxx to 135 ft.	Sec.	26.82	
14.		: Diomin.		. 44N	
		:ft. Slot	Rge	·5E	-
			Elev	/. ——	
		and Liner Pipe			SHOW
Dia	m. (in.)	Kind and Weight	From (Pt)		LOCATION IN
<u> </u>	_1	PVC	_1	118 /5	TOW PLAT
L				su	/k
					/
16.	Size H	ole below casing: 5	_in.		
		level <u>10</u> ft. below casi		h is <u>1</u>	ft.
	above (ground level. Pumping leve	el10.	when pumpi	ing at
	dbm to	r _2 hours.			
18.	<u> </u>	n _2 hours. ORMATIONS PASSED THROUGH	Н	THICKNES	DEPTH OF BOTTOM
18.	<u> </u>	ORMATIONS PASSED THROUG	н	THICKNES	DEPTH OF BOTTOM
18.	Top s	ORMATIONS PASSED THROUG	н		
18.	Top s	ORMATIONS PASSED THROUG	iH .	2	2
	Top s Bould Broke	ormations passed througonil ers and gravel		2 87	2 109
	Top s Bould Broke	ormations passed throughoil ers and gravel n rock and shale		2 87 9	2 109 118
	Top s Bould Broke	ormations passed throughoil ers and gravel n rock and shale		2 87 9	2 109 118
	Top s Bould Broke	ormations passed throughoil ers and gravel n rock and shale		2 87 9	2 109 118
	Top s Bould Broke	ormations passed throughoil ers and gravel n rock and shale		2 87 9	2 109 118
	Top s Bould Broke	ormations passed throughoil ers and gravel n rock and shale		2 87 9	2 109 118
	Top s Bould Broke	ormations passed throughoil ers and gravel n rock and shale		2 87 9	2 109 118

INSTRUCTIONS TO DRILLERS

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH

b. Driven c. Drilled X X Tubular	l B Drive Pip Finished	uried Slab: Yes_	Depth <u>137</u> ft. In Rock <u>X X</u>
d. Grout:	(KIND)	FROM (Ft.)	TO (Ft.)
2. Distance to Nec Building	75 Ft.	Sewer (non Cast Sewer (Cast iron	eld iron))
3. Is water from th	is well to be us		
4. Date well comp	leted (15)	sel 19,1	9/3
5. Permanent Pump Manufacturer Capacity 6. Well Top Sealed	Installed?	Type	No
6. Well Top Sealed	? Yes X /	No Trade	# 1 1 t can
Pitless Adaptor	Installed?	es_XVN	o The Titte
8. Well Distillected	it ies A	140	
9. Water Sample St	bmitted? Ye	s_XXN	lo
			tank located
IDPH 4.065			

(b) 6. PERSONAL PRIVA 2. Casing	g and Lines		RSURVEYS			
Diam. (in.)	Kind	and Weight	From (Ft.)	To (Ft.)	1.00	SHOW CATION IN
.5	Rhal	£.,	0	137		TION PLAT
	a se se				NF	IENW
			1		V- /L	1-1000
	ORMATIONS	PASSED THRO	идн	THICK	I E SS	DEPTH OF BOTTOM
	all			10	-	40
.5	did			40	2	75'
	lien F	Many.	V.	75	-/	130'
1					7	1
	Ames!	rek		130	3, 1	175
Li L	In-11	beck.		130),	<u> 175 '</u>
Le L	Im si	leck .		130), 	
Le Z	Im s	beck)		130) 	
L.	Jen-11	leck)		/30)'	

FILL IN ALL PERTINENT INFORMATION REC. STED AND MAIL ORIGINAL TO \$ TATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well a. Dug 1	Bored Ho	le Diom. 5 in	. Depth 45 ft.
	b. Driven c. Drilled Tubular	Drive Pip	e Diamin.	Noft. Depthft. In Rock
	d. Grout:	(KIND)	FROM (Ft.)	TO (Ft.)
		Ciav e l	0	45
2.	Distance to Ne Building 30 Cess Pool Privy Septic Tank	75 Ft.	Sewer (non Cast Sewer (Cast iron Barnyard	eld iron))
2	Leaching Pit_	water for human	consumption? V	esNo
	D-4	1-ted 12 (20'79	
5		- t - 11-12 V.	- Deta 12.	20,779 No
	Manufacturer	tallite Ty	pe SUD. Loca	tion III well Ft
6.	Well Top Seale	d? YesNo	Type <u>W</u>	i Lams Cap
	How attached t	o casing?	Model Number	ber B50AC
8.	Wall Disinfects	M? Yes ?	No	
9.	Pump and Equi	pment Disinfect	ed? Yes	No
10.	Pressure Tank Location	Size gal.	ed? Yes Type_ <i>We</i> !! No	1. 1.01
11.	Water Sample S	ubmitted? Yes	No	·
RE	MARKS:			* 55 933

GEC	LOGICAL AND WATER	SURVEYS	VELL R	ECO.	RD	
10. Prop						
Add						
Dril						
11. Perr 12. Water						
<u> </u>						
at da 14. Screa						
Lend						
15 Casin	g and Liner Pipe	Elev	·			
Diem. (in.)			t.) To (Ft.)		SHOW LOCATION IN	
5	Dlack Greek	Ú	45	SECT	TION PLAT	
	15 lbs per ft			SW	SE SE	
					í	
above	ground level. Pumping lever hours.	rel 10 th.	when pu	mping	atit.	
above gpm fo	ground level. Pumping level hours.	/el_ <u>132ft</u> .	when pu	mping	otit.	
above gpm fo 18.	ground level. Pumping lever hours. FORMATIONS PASSED THROU	/el_ <u>132ft</u> .	when pu	mping		
above gpm fo 18. Top 1	ground level. Pumping lever hours. FORMATIONS PASSED THROU	/el_ <u>132ft</u> .	THICK	mping	DEPTH OF BOTTOM	
above gpm fo 18. Top 1	ground level. Pumping lever hours. FORMATIONS PASSED THROUGH GRAVE.	/el_ <u>132ft</u> .	THICK	mping	DEPTH OF BOTTOM	
above gpm fo 18. Top S	ground level. Pumping lever hours. FORMATIONS PASSED THROUGH GRAVE.	/el_ <u>132ft</u> .	THICK	mping	DEPTH OF BOTTOM	
above gpm fo 18. Top S	ground level. Pumping lever hours. FORMATIONS PASSED THROUGH GRAVE.	/el_ <u>132ft</u> .	THICK	mping	DEPTH OF BOTTOM	
above gpm fo 18. <u>T</u> ्र	ground level. Pumping lever hours. FORMATIONS PASSED THROUGH GRAVE.	/el_ <u>132ft</u> .	THICK	mping	DEPTH OF BOTTOM	
above gpm fo 18. Top S	ground level. Pumping lever hours. FORMATIONS PASSED THROUGH GRAVE.	/el_ <u>132ft</u> .	THICK	mping	DEPTH OF BOTTOM	
above gpm fo 18. <u>T</u> ्र	ground level. Pumping lever hours. FORMATIONS PASSED THROUGH GRAVE.	/el_ <u>132ft</u> .	THICK	mping	DEPTH OF BOTTOM	
above gpm fo 18. <u>T</u> ्र	ground level. Pumping lever hours. FORMATIONS PASSED THROUGHOUSE. Gravel.	/el_ <u>132ft</u> .	THICK	mping	DEPTH OF BOTTOM	
above gpm for 18. Top Saind Grave	ground level. Pumping lever hours. FORMATIONS PASSED THROUGHOUSE. d Gravel	gH ft.	THICK 1 42 2	mping	DEPTH OF BOTTOM	
above gpm for 18. Top Saind Grave	ground level. Pumping lever hours. FORMATIONS PASSED THROUGHOUSE. Gravel.	NECESSARY	THICK 1 42 2	mping NESS	1 43 45	